

**In the Claims:**

1. (original) A material comprising epitaxial  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  formed as a layer on the C-plane of a sapphire substrate, wherein x has a value from 0 to 1.
2. (original) The material of Claim 1 wherein said layer is between about 100 and about 3000 nanometers thick.
3. (original) The material of Claim 1 wherein said layer is between about 300 and about 1000 nanometers thick.
4. (original) The material of Claim 1 wherein said  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  has a 111 orientation.
5. (original) The material of Claim 1 wherein said  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  is doped with an ion or ions that change its properties.
6. (original) The material of Claim 5 wherein said doping ions comprise cesium and bismuth.
7. (original) The material of claim 1 further comprising conductive electrodes for applying a bias or RF signal to the  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  layer.
8. (original) A material comprising epitaxial  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  formed as a layer on a sapphire substrate, wherein x has a value from 0.1 to 0.9.
9. (original) The material according to Claim 8 wherein x has a value from 0.3 to 0.7.
10. (original) The material according to Claim 8 wherein x has a value from 0.4 to 0.6.
11. (original) The material of Claim 8 wherein said layer is between about 100 and about 3000 nanometers thick.
12. (original) The material of Claim 8 wherein said layer is between about 300 and about 1000 nanometers thick.
13. (original) The material of Claim 8 wherein said  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  has a 111 orientation.
14. (original) The material of Claim 8 wherein said  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  is doped with an ion or ions that change its properties.
15. (original) The material of Claim 14 wherein said doping ions comprise cesium and bismuth.
16. (original) The material of Claim 8 further comprising conductive electrodes for applying a bias or RF signal to the  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  layer.